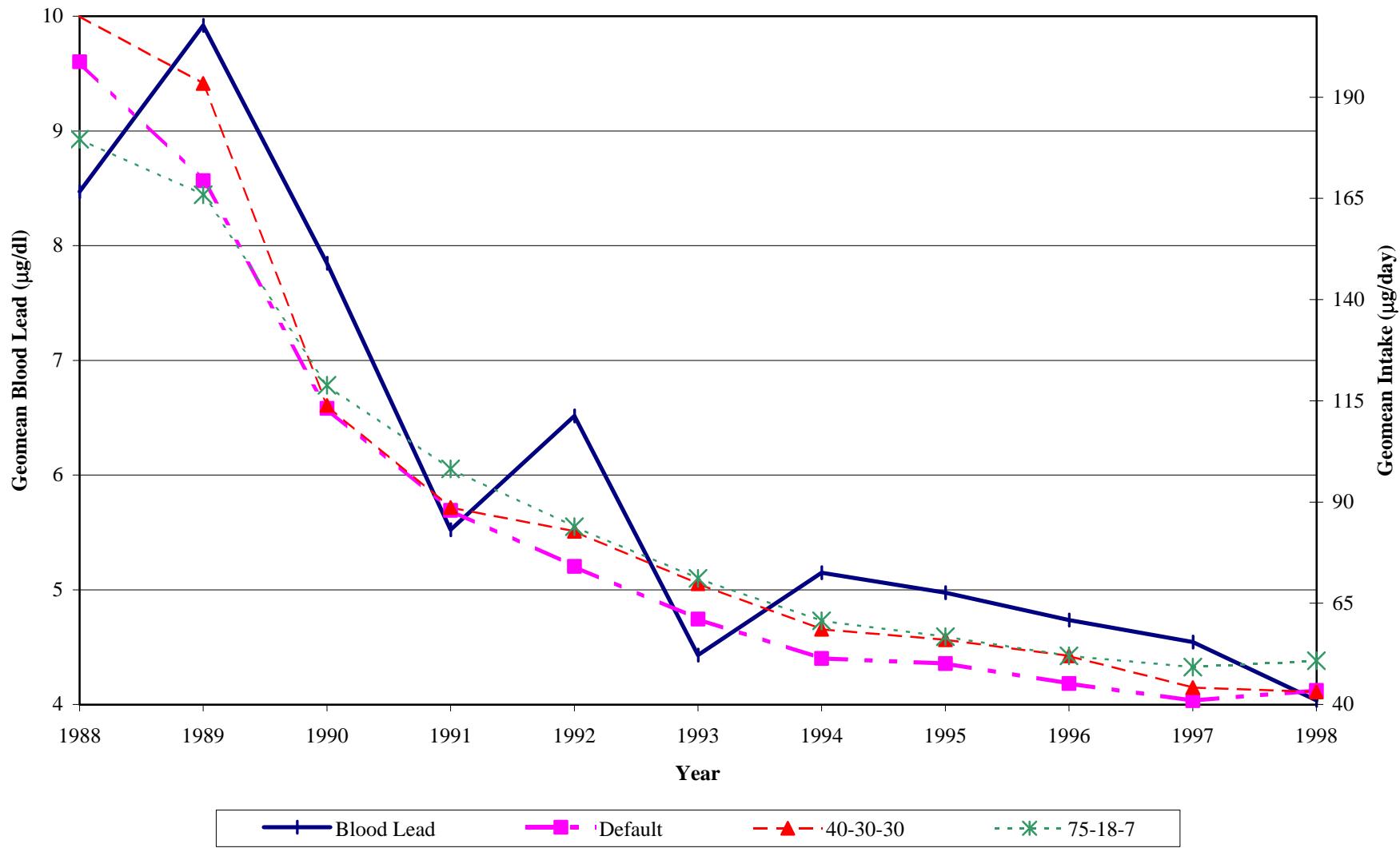
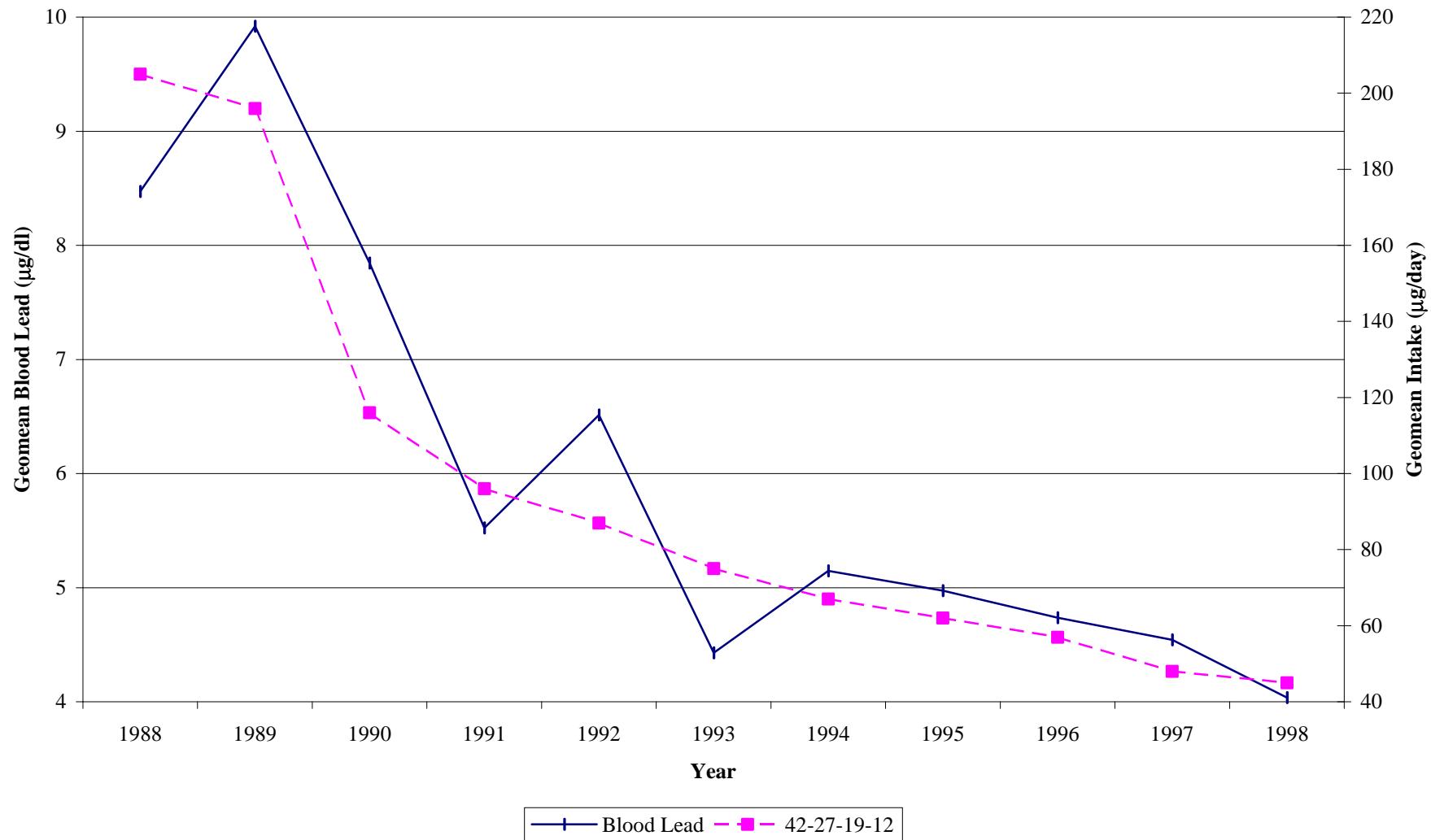


**Figure Q4-11a**  
**Site Wide Intake Rates and Geometric Mean Blood Lead Levels**



**Figure Q4-11b**  
**Site Wide Intake Rates and Geometric Mean Blood Lead Levels**



**Tables 4.6 a-d**  
**Multiple Comparisons of Analysis of Variance for Mean Blood Lead Levels**

**Table 4.6 a Blood Lead by Year Site-Wide**

Year	N	Mean	GeoMean	GeoP-value
1988	229	9.9	8.5	-
1989	275	11.4	9.9	0.0011
1990	362	8.9	7.8	0.0001
1991	365	6.3	5.5	0.0001
1992	414	7.4	6.5	0.0001
1993	445	5.6	4.4	0.0001
1994	416	6.2	5.1	0.0012
1995	404	6.0	5.0	0.4264
1996	397	5.8	4.7	0.2646
1997	337	5.4	4.5	0.3631
1998	375	4.8	4.0	0.0105
Overall				0.0001

**Table 4.6 b Blood Lead by Year Kellogg**

Year	N	Mean	GeoMean	GeoP-value
1988	169	9.2	8.1	-
1989	212	10.8	9.3	0.0089
1990	193	9.3	8.3	0.0212
1991	177	6.9	6.0	0.0001
1992	211	8.1	6.9	0.0062
1993	228	6.3	5.2	0.0001
1994	232	6.7	5.5	0.3794
1995	251	6.4	5.2	0.3541
1996	225	6.4	5.1	0.6954
1997	199	5.9	5.0	0.7499
1998	212	4.9	4.0	0.0006
Overall				0.0001

**Table 4.6 c Blood Lead by Year Smeltermville**

Year	N	Mean	GeoMean	GeoP-value
1988	32	14.2	11.6	-
1989	36	14.6	13.2	0.3374
1990	29	9.9	8.7	0.0009
1991	48	6.6	5.9	0.0005
1992	55	8.3	7.4	0.0178
1993	66	6.7	5.8	0.0130
1994	48	6.0	5.3	0.3967
1995	40	7.2	6.2	0.1444
1996	51	6.4	5.8	0.4748
1997	33	5.6	5.2	0.2708
1998	43	6.4	5.8	0.2268
Overall				0.0001

**Table 4.6 d Blood Lead by Year Pinehurst**

Year	N	Mean	GeoMean	GeoP-value
1988	-	-	-	-
1989	-	-	-	-
1990	107	7.4	6.7	-
1991	116	5.1	4.7	0.0001
1992	119	6.1	5.5	0.0017
1993	119	3.5	2.6	0.0001
1994	109	5.4	4.6	0.0001
1995	97	4.6	4.0	0.1015
1996	103	4.1	3.7	0.2169
1997	86	4.2	3.5	0.5884
1998	100	4.1	3.5	0.9791
Overall				0.0001

**Table Q4.22 Estimated Soil and Dust Lead Intake (Default 55:45 Dust/Soil)<sup>1</sup>**

**Table Q4.22a Site Wide**

Year	N	Mean	GeoMean	GeoP-value
1988	70	272	199	-
1989	49	263	169	0.2428
1990	139	154	113	0.0001
1991	162	109	88	0.0028
1992	230	101	74	0.0233
1993	199	81	61	0.0096
1994	203	71	51	0.0248
1995	153	78	50	0.7802
1996	162	68	45	0.2857
1997	100	65	41	0.3536
1998	157	57	43	0.5272
<b>Overall</b>				0.0001

**Table Q4.22b Kellogg**

Year	N	Mean	GeoMean	GeoP-value
1988	44	314	223.5	-
1989	31	330	204.5	0.6045
1990	68	176	133.3	0.0011
1991	75	126	108.2	0.0757
1992	124	125	91.4	0.1216
1993	111	84	63.7	0.0006
1994	105	75	53.9	0.1210
1995	97	84	57.0	0.6229
1996	107	69	49.5	0.2119
1997	59	73	48.1	0.8206
1998	82	63	47.0	0.8661
<b>Overall</b>				0.0001

**Table Q4.22c Smelterville**

Year	N	Mean	GeoMean	GeoP-value
1988	21	226	183.7	-
1989	14	162	137.7	0.2170
1990	15	218	186.3	0.3578
1991	27	125	109.5	0.0045
1992	26	76	58.1	0.0006
1993	19	118	84.8	0.1212
1994	35	97	64.5	0.2899
1995	20	118	64.3	0.9896
1996	12	132	46.4	0.4596
1997	15	31	26.9	0.1671
1998	26	41	39.7	0.0026
<b>Overall</b>				0.0001

**Table Q4.22d Pinehurst**

Year	N	Mean	GeoMean	GeoP-value
1990	46	97	74.8	-
1991	51	82	61.6	0.1612
1992	66	70	58.4	0.6608
1993	55	67	54.1	0.5079
1994	43	41	36.9	0.0022
1995	30	40	30.6	0.1914
1996	37	44	35.9	0.3450
1997	18	80	35.9	0.9986
1998	35	40	34.3	0.8364
<b>Overall</b>				0.0001

<sup>1</sup> assumes dust/soil intake is 55% housedust, 45% yard soil

**Table Q4.23 Estimated Soil and Dust Lead Intake (40:30:30)<sup>1</sup>**

**Table Q4.23a Site Wide**

Year	N	Mean	GeoMean	GeoP-value
1988	70	259	210	-
1989	49	256	193	0.4517
1990	139	145	114	0.0001
1991	162	106	89	0.0014
1992	226	100	83	0.2872
1993	197	82	70	0.0037
1994	201	71	59	0.0030
1995	151	76	56	0.5353
1996	160	68	52	0.3642
1997	100	63	44	0.0769
1998	153	54	43	0.7760
Overall				0.0001

**Table Q4.23b Kellogg**

Year	N	Mean	GeoMean	GeoP-value
1988	44	282	221	-
1989	31	294	210	0.7191
1990	68	176	153	0.0023
1991	75	127	116	0.0009
1992	124	124	106	0.2042
1993	111	91	80	0.0001
1994	105	78	66	0.0055
1995	97	87	70	0.4602
1996	107	75	63	0.1854
1997	59	73	54	0.1556
1998	82	62	49	0.4252
Overall				0.0001

**Table Q4.23c Smeltermville**

Year	N	Mean	GeoMean	GeoP-value
1988	21	245	222	-
1989	14	214	197	0.4460
1990	15	218	204	0.6990
1991	27	137	127	0.0005
1992	26	98	92	0.0029
1993	19	115	100	0.5401
1994	33	89	76	0.0990
1995	20	92	52	0.0999
1996	12	100	40	0.5051
1997	15	26	25	0.1778
1998	26	34	33	0.0074
Overall				0.0001

**Table Q4.23d Pinehurst**

Year	N	Mean	GeoMean	GeoP-value
1990	46	76	60	-
1991	51	66	52	0.2228
1992	62	57	50	0.7066
1993	53	55	47	0.5968
1994	43	36	33	0.0012
1995	28	34	29	0.2679
1996	35	38	33	0.3963
1997	18	65	34	0.8128
1998	31	36	32	0.7103
Overall				0.0001

<sup>1</sup> assumes dust/soil intake is 40% housedust, 30% yard soil, 30% community soil

**Table Q4.24 Estimated Soil and Dust Lead Intake (75:18:7)<sup>1</sup>**

**Table Q4.24a Site Wide**

Year	N	Mean	GeoMean	GeoP-value
1988	70	271	180	-
1989	49	285	166	0.5716
1990	139	153	119	0.0002
1991	162	118	98	0.0123
1992	226	104	84	0.0182
1993	197	87	71	0.0097
1994	201	76	61	0.0169
1995	151	79	57	0.4020
1996	160	72	52	0.3095
1997	100	80	49	0.5740
1998	153	67	51	0.7430
Overall				0.0001

**Table Q4.24b Kellogg**

Year	N	Mean	GeoMean	GeoP-value
1988	44	324	200	-
1989	31	359	189	0.7662
1990	68	171	141	0.0263
1991	75	137	124	0.1640
1992	124	121	101	0.0140
1993	111	92	79	0.0017
1994	105	80	66	0.0338
1995	97	88	68	0.7320
1996	107	70	59	0.1206
1997	59	89	60	0.9178
1998	82	75	58	0.8169
Overall				0.0001

**Table Q4.24c Smelteryville**

Year	N	Mean	GeoMean	GeoP-value
1988	21	203	168	-
1989	14	175	147	0.5464
1990	15	215	194	0.4579
1991	27	139	133	0.0031
1992	26	103	84	0.0013
1993	19	124	100	0.3688
1994	33	101	79	0.2628
1995	20	103	70	0.5791
1996	12	176	56	0.5829
1997	15	37	31	0.1753
1998	26	50	49	0.0023
Overall				0.0001

**Table Q4.24d Pinehurst**

Year	N	Mean	GeoMean	GeoP-value
1990	46	108	79	-
1991	51	85	61	0.0731
1992	62	72	59	0.7033
1993	53	67	54	0.4466
1994	43	44	39	0.0112
1995	28	35	28	0.0210
1996	35	44	36	0.1265
1997	18	97	38	0.8356
1998	31	39	32	0.4653
Overall				0.0001

<sup>1</sup> assumes dust/soil intake is 75% housedust, 18% yard soil, 7% community soil

**Table Q4-25 Estimated Soil and Dust Lead Intake (42:27:19:12)<sup>1</sup>**

**Table Q4.25a Site Wide**

Year	N	Mean	GeoMean	GeoP-value
1988	70	248	205	-
1989	49	255	196	0.6421
1990	139	139	116	0.0001
1991	162	110	96	0.0046
1992	226	99	87	0.0979
1993	197	83	75	0.0013
1994	201	76	67	0.0290
1995	151	74	62	0.1624
1996	160	68	57	0.1365
1997	100	65	48	0.0437
1998	153	53	45	0.3334
Overall				0.0001

**Table Q4.25b Kellogg**

Year	N	Mean	GeoMean	GeoP-value
1988	44	274.77	216	-
1989	31	293.6	212	0.8828
1990	68	167.06	156	0.0029
1991	75	130.18	125	0.0001
1992	124	116.57	109	0.0057
1993	111	92.82	88	0.0001
1994	105	81.56	76	0.0021
1995	97	86.08	77	0.8641
1996	107	73.6	68	0.0373
1997	59	74.39	60	0.0896
1998	82	59.75	51	0.0913
Overall				0.0001

**Table Q4.25c Smelterville**

Year	N	Mean	GeoMean	GeoP-value
1988	21	226	214	-
1989	14	213	203	0.6609
1990	15	212	204	0.9766
1991	27	149	147	0.0001
1992	26	115	110	0.0001
1993	19	119	111	0.9000
1994	33	103	96	0.1913
1995	20	79	60	0.0038
1996	12	105	42	0.2992
1997	15	27	25	0.1391
1998	26	35	34	0.0041
Overall				0.0001

**Table Q4.25d Pinehurst**

Year	N	Mean	GeoMean	GeoP-value
1990	46	77	63	-
1991	51	64	53	0.1229
1992	62	57	52	0.7879
1993	53	54	48	0.3338
1994	43	39	37	0.0029
1995	28	35	32	0.0875
1996	35	39	36	0.2661
1997	18	69	38	0.7214
1998	31	36	33	0.4254
Overall				0.0001

<sup>1</sup> assumes dust/soil intake is 42% housedust, 27% community soil, 19% neighborhood soil, 12% yard soil

**Figure Q4-12a**  
**Predicted and Observed Geometric Mean Blood Lead Levels in 0-84 Month Old Children**  
**Default Parameters - Three Dust:Soil Partition Scenarios**  
**Kellogg 1988-1998**

